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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/039,331	11/07/2001	William B. Noble	RTN-139PUS	1499

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EXAMINER	
TRAN, TAM D	

ART UNIT	PAPER NUMBER
2676	

DATE MAILED: 03/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/039,331	NOBLE ET AL.	
	Examiner	Art Unit	
	Tam D Tran	2676	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *03* MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *08 October 2004*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-37* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☒ Claim(s) *34-37* is/are allowed.

6)☒ Claim(s) *1-7,9-12,14 and 17-33* is/are rejected.

7)☒ Claim(s) *8,13,15 and 16* is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-7, 9-12, 14, 17-33, are rejected under 35 U. S.C. 103(a) as being unpatentable over Johnson et al. (USPN 5553209) in view of Hayashida et al. (USPN 6067502), hereinafter simply Johnson and Hayashida.

2. In regard to claims 1, 17, Johnson teaches a symbol expansion method and apparatus comprising: selecting a map portion containing one or more map display symbols on a computer map display, see col.2 lines 1-5, wherein one or more map display symbols include map display symbols selected from among one or more de-cluttered map display symbols, two or more normal map display symbols and two or more cluttered map display symbols (at step 72 the user has option to chose de-clutter map display symbol; the user may chose different level of record for performing the de-clutter map display symbol); see Fig.4a, col.5 lines 1-20. Johnson does not teach symbol expansion display. However, Hayashida teaches presenting a symbol expansion display having information associated with the one or more map display symbols on the computer map display, wherein the symbol expansion display is displayed concurrently with the one or more map display symbols. See Fig.69, Fig. 40-48, col.64 lines 25-42. It would have been

obvious to a person of ordinary skill in the art at the time of the invention to incorporate the symbol expansion display of Hayashida into the map display symbols of Johnson because the combination features of map display of Hayashida and Johnson would provide reducing and magnifying feature for map display. See Fig. 40-48, col.37 lines 27-37.

3. In regard to claim 2, Johnson teaches a symbol expansion method and apparatus, wherein the selecting comprises: pointing to a map display symbol with computer pointing device. See col.3 lines 14-20.

4. In regard to claim 3, Johnson teaches a symbol expansion method and apparatus, wherein the selecting comprises: selecting a map portion of the computer map display containing the one or more map display symbols with the computer pointing device. See col.3 lines 5-20.

5. In regard to claim 4, Johnson teaches a symbol expansion method and apparatus, wherein the presenting comprises: relating the one or more map display symbols to one or more map symbol records retained in a computer memory, each containing record components; selecting one or more record components from among the one or more map symbol records; and formatting the one or more selected record components for the symbol expansion display, presenting at least one or more symbol expansion graphics and one or more symbol expansion data with the selected record components in the symbol expansion display in combination with the one or more map display symbol. See col.4 lines 18-65.

6. In regard to claims 5, 21, Johnson teaches a symbol expansion method and apparatus, wherein the selecting one or more record components comprises: selecting one or more record graphics components of the one or more map symbol records. See col.3 lines 14-25.

7. In regard to claim 6, Johnson teaches a symbol expansion method and apparatus, wherein the selecting the one or more record components comprises: selecting record data of the one or more map symbol records. See col.3 lines 14-25.

8. In regard to claim 7, Johnson teaches a symbol expansion method and apparatus, wherein the selecting record data comprises: filtering the record data of the one or more map symbol records to provide the one or more symbol expansion data corresponding to a selected record data type (a multi-level hierarchical symbol structure corresponding to record data range which can be interpreted as filtering). See col.3 lines 43-55.

9. In regard to claim 9, Johnson teaches a symbol expansion method and apparatus, wherein the selecting the record data comprises: filtering the record data of the one or more map symbol records to provide symbol expansion data corresponding to a selected record data range (a multi-level hierarchical symbol structure corresponding to record data range which can be interpreted as filtering). See col.3 lines 43-55.

10. In regard to claim 10, Johnson teaches a symbol expansion method and apparatus, wherein the selecting the record data comprises: algorithmically combining map symbol records to provide the one or more symbol expansion data. See col.3 lines 25-35.

11. In regard to claims 11, 19 Johnson teaches a symbol expansion method and apparatus, wherein formatting comprises: providing the one or more symbol expansion graphics, movable by the user on the computer map display, and associated with the record graphics components of the one or more map symbol records. See col.1 lines 15-22.

12. In regard to claims 12, 20, Johnson teaches a symbol expansion method and apparatus, wherein formatting further comprises: providing the one or more symbol expansion data,

movable by the user on the computer maps display, and associated with the record data components of the one or more map symbol records. See col.2 lines 60-67.

13. In regard to claim 14, Johnson teaches a symbol expansion method and apparatus, wherein formatting comprises: providing a lead line from the map portion to the symbol expansion display where the lead line moves in accordance with the position of the symbol expansion display. See col.3 lines 5-13.

14. In regard claim 18, Johnson teaches a symbol expansion method and apparatus, wherein the presentation processor comprises: a computer memory having one or more map symbol records stored therein; a relation processor which relates the one or more map display symbols to one or more map symbol records retained in the computer memory; a selection device for selecting one or more record components from among the one or more map symbol records; and a display processor which receives and formats each of the one or more record selected components for presenting at least one or more symbol expansion graphics and one or more symbol expansion data in the symbol expansion display in combination with the one or more map display symbols. See col.7 lines 39-58.

15. In regard to claims 22, 25, Johnson teaches a symbol expansion method and apparatus, wherein the computer map display is displayed at a first scale and the symbol expansion display is displayed in combination with the computer map display at first scale. See col.5 lines 20-27.

16. In regard to claims 23, 24, 26, 27, Johnson teaches a symbol expansion method and apparatus, wherein each of the one or more symbol expansion graphics is associated with a lower level of hierarchy of one of the one or more map display symbols. See col.5 lines 41-51.

17. In regard to claims 28, 31, Johnson teaches a symbol expansion method and apparatus, wherein the one or more map display symbols include one or more de-cluttered map display symbols. See Fig.5, col.7 lines 65-68.

18. In regard to claims 29, 32, Johnson teaches a symbol expansion method and apparatus, wherein the one or more map display symbols include two or more normal map display symbols (displaying single symbol). See Fig.5, col.7 lines 60-65.

19. In regard to claims 30, 33, Johnson teaches a symbol expansion method and apparatus, wherein the one or more map display symbols include two or more cluttered map display symbols (normal displaying symbols without de-cluttering). See col.1 lines 35-45.

Allowable Subject Matter

20. Claims 8, 13, 15, 16, are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

21. Claims 34-37, are allowed

22. The following is a statement of reasons for the indication of allowable subject matter: The closest prior art shows symbol expansion method including selecting a map portion containing one or more map display symbols but does not disclose selecting one or more components from among the one or more map symbol records, wherein the selecting the one or more record components comprises selecting record data of the one or more map symbol

records, wherein the selecting the record data comprises filtering the record data of the one or more map symbol records to provide the one or more symbol expansion data corresponding to selected record data type, wherein the filtering the record data comprise selecting a record data type selected from the group consisting of dollar asset range record data type, a friendliness range record data type, a personnel size record data type, a security classification record data type, a type of service record data type, and age of symbol record data type;

The closest prior art shows symbol expansion method including selecting a map portion containing one or more map display symbols but does not disclose formatting the one or more selected record components, wherein formatting comprises providing the one or more symbol expansion data, movable by user on the computer maps display, and associated with the record data components of the one or more map symbol records, wherein the providing the one or more symbol expansion data comprises providing a user selectable language for the list of symbol expansion data.

The closest prior art shows symbol expansion method including selecting a map portion containing one or more map display symbols but does not disclose formatting the one or more selected record components, wherein formatting comprises color coding one or more of the one or more symbol expansion graphics to indicate an attribute of object represented by one of the one or more map display symbols.

The closest prior art shows symbol expansion method including selecting a map portion containing one or more map display symbols but does not disclose formatting the one or more selected record components, wherein formatting comprises augmenting the symbol expansion

display with special identifying characters that indicate when information has been omitted from the symbol expansion display.

Response to Arguments

23. Applicant's arguments filed on 10/8/2004, have been fully considered but they are not persuasive.

Applicant argues that the prior art does not teach "one or more map display symbols include map display symbols selected from among one or more de-cluttered map display symbols, two or more normal map display symbols and two or more cluttered map display symbols". However, examiner respectfully disagrees with the argument because on Fig. 4a, col.5 lines 1-20, Johnson teaches user has option to chose de-clutter map display symbol; the user may chose different level of record for performing the de-clutter map display symbol, which read on selecting from among one or more de-cluttered map display symbols, two or more normal map display symbols and two or more cluttered map display symbols.

Applicant argues that the prior art does not teach the motivation for combining the two references. However, examiner respectfully disagrees with the argument because on col.37 lines 25-37, Hayashida teaches the reduction and magnification feature for the motivation of combining the two references.

Applicant argues that the prior art does not teach " presenting at least one of one or more symbol expansion graphics and one or more symbol expansion data associated with the selected record components in the symbol expansion display concurrently with the one or more map display symbols". However, examiner respectfully disagrees with the argument because on Fig.69,

col.64 lines 25-42. Hayashida teaches one or more symbol expansion data in the symbol expansion display concurrently with the one or more map display symbols.

Applicant argues that the prior art does not teach "symbol expansion data corresponding to selected record data range". However, examiner respectfully disagrees with the argument because on col.5 lines 1-20, Johnson teaches levels of record data which read on selected record data range.

Applicant argues that the prior art does not teach "providing one or more symbol expansion data, movable by user on the computer maps display". However, examiner respectfully disagrees with the argument because on col.1 lines 35-45, Johnson teaches the additional symbols are display in closer proximity, which read on symbol expansion is movable by user.

For these reasons, the rejections are maintained.

24. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Conclusion

25. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Tam D. Tran** whose telephone number is **703-305-4196**. The examiner can normally be reached on MON-FRI from 8:30 – 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Matthew Bella** can be reached on **703-308-6829**.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered response should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Tam Tran

T T

Examiner

Art unit 2676

Matthew C. Bella

MATTHEW C. BELLA
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600